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TECH CENTER



OIPE

#18

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003

TIME: 13:16:50

Input Set : N:\AMC\I904923b.raw

Output Set: N:\CRF4\04152003\I904923B.raw

1 <110> APPLICANT: Novartis AG
 2 <120> TITLE OF INVENTION: Modified viral surface proteins for binding to extracellular
 3 matrix components
 4 <130> FILE REFERENCE: 4-30246a/GTI
 C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/904,923B
 6 <141> CURRENT FILING DATE: 2001-07-13
 7 <160> NUMBER OF SEQ ID NOS: 3
 8 <170> SOFTWARE: Patentln version 3.1
 10 <210> SEQ ID NO: 1
 11 <211> LENGTH: 229
 12 <212> TYPE: PRT
 13 <213> ORGANISM: Moloney murine leukemia virus
 14 <400> SEQUENCE: 1

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18			20						25					30		
19	Pro	Leu	Trp	Thr	Trp	Trp	Pro	Asp	Leu	Thr	Pro	Asp	Leu	Cys	Met	Leu
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22		50					55					60				
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24	65					70				75					80	
25	Cys	Ser	Arg	Asp	Cys	Glu	Glu	Pro	Leu	Thr	Ser	Leu	Thr	Pro	Arg	Cys
26				85						90					95	
27	Asn	Thr	Ala	Trp	Asn	Arg	Leu	Lys	Leu	Asp	Gln	Thr	Thr	His	Lys	Ser
28			100						105					110		
29	Asn	Glu	Gly	Phe	Tyr	Val	Cys	Pro	Gly	Pro	His	Arg	Pro	Arg	Glu	Ser
30			115					120					125			
31	Lys	Ser	Cys	Gly	Gly	Pro	Asp	Ser	Phe	Tyr	Cys	Ala	Tyr	Trp	Gly	Cys
32		130					135					140				
33	Glu	Thr	Thr	Gly	Arg	Ala	Tyr	Trp	Lys	Pro	Ser	Ser	Ser	Trp	Asp	Phe
34	145					150					155				160	
35	Ile	Thr	Val	Asn	Asn	Asn	Leu	Thr	Ser	Asp	Gln	Ala	Val	Gln	Val	Cys
36				165						170					175	
37	Lys	Asp	Asn	Lys	Trp	Cys	Asn	Pro	Leu	Val	Ile	Arg	Phe	Thr	Asp	Ala
38			180						185					190		
39	Gly	Arg	Arg	Val	Thr	Ser	Trp	Thr	Thr	Gly	His	Tyr	Trp	Gly	Leu	Arg
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42		210					215						220			
43	Arg	Tyr	Gln	Asn	Leu											
44																225

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Input Set : N:\AMC\I904923b.raw

Output Set: N:\CRF4\04152003\I904923B.raw

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47 <211> LENGTH: 687
48 <212> TYPE: DNA
49 <213> ORGANISM: Moloney murine leukemia virus
50 <400> SEQUENCE: 2
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003
TIME: 13:16:51

Input Set : N:\AMC\I904923b.raw
Output Set: N:\CRF4\04152003\I904923B.raw

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The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003

TIME: 13:16:51

Input Set : N:\AMC\I904923b.raw

Output Set: N:\CRF4\04152003\I904923B.raw

L:5 M:270 C: Current Application Number differs, Wrong Format

L:74 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 04/14/2003

TIME: 08:50:15

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\I904923B.raw

3 <110> APPLICANT: Novartis AG

5 <120> TITLE OF INVENTION: Modified viral surface proteins for binding to extracellular matrix

6 components

8 <130> FILE REFERENCE: 271010-463

10 <140> CURRENT APPLICATION NUMBER: US 09/904,923B

11 <141> CURRENT FILING DATE: 2001-07-13

14 <160> NUMBER OF SEQ ID NOS: 3

16 <170> SOFTWARE: PatentIn version 3.1

W--> 17 <210> SEQ ID NO: 1

18 <211> LENGTH: 229

19 <212> TYPE: PRT

20 <213> ORGANISM: Moloney murine leukemia virus

22 <400> SEQUENCE: 1

Does No. Comply
Corrected Diskette Needed

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 25 1 5 10 15
 28 Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His
 29 20 25 30
 32 Pro Leu Trp Thr Trp Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu
 33 35 40 45
 36 Ala His His Gly Pro Ser Tyr Trp Gly Leu Gly Tyr Gln Ser Pro Phe
 37 50 55 60
 40 Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly
 41 65 70 75 80
 45 Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys
 46 85 90 95
 49 Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser
 50 100 105 110
 53 Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser
 54 115 120 125
 56 Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys
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 59 Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Trp Asp Phe
 60 145 150 155 160
 62 Ile Thr Val Asn Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys
 63 165 170 175
 65 Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala
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 68 Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg
 69 195 200 205
 71 Leu Tyr Val Ser Gly Gln Asp Pro Gly Leu Thr Phe Gly Ile Arg Leu
 72 210 215 220
 74 Arg Tyr Gln Asn Leu
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78 <210> SEQ ID NO: 2
79 <211> LENGTH: 687
80 <212> TYPE: DNA
83 <213> ORGANISM: Moloney murine leukemia virus
86 <400> SEQUENCE: 2
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91 cttaccccag atttatgtat gttagccac catggaccat cttattgggg gctagaatat 180
93 caatcccctt tttcttctcc cccggggccc ccttggtgct cagggggcag cagcccaggc 240
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112 <210> SEQ ID NO: 3
113 <211> LENGTH: 10
114 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: collagen-binding domain of von Willebrand Factor
122 <400> SEQUENCE: 3
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129 #153407v1
130 Page 3

delete

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PATENT APPLICATION: US/09/904,923B

DATE: 04/14/2003

TIME: 08:50:16

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\I904923B.raw

L:17 M:283 W: Missing Blank Line separator, <210> field identifier